To: USPTO

Page: 1/35

Date: 2005/12/8 下午 06:57:54



RECEIVED CENTRAL FAX CENTER

DEC 0 8 2005

North America Intellectual Property Corporation

P.O. BOX 506, Merrifield, VA 22116, U.S.A.

Voice Mail: 302-729-1562

FAX: 806-498-6673

e-mail:winstonhsu@naipo.com

Customer No.: 27765

Fax To: NGUYEN, CHAU T

Tel.: (571) 272-3126

Art Unit: 2663

Fax: (571) 273-8300

From: Winston Hsu, Registration No. 41,526

Serial No.: 10/709,935

Attorney Docket No.: REAP0023USA

Subject: Information Disclosure Statement (IDS)

Total Pages: 35 pages (including cover page)

Winston Hsu 2005/12/08

To: USPTO

Page: 2/35

Date: 2005/12/8 下午 06:57:55

RECEIVED CENTRAL FAX CENTER

DEC 0 8 2005

PTO/SB/21 (09-04)
Approved for use through 07/31/2006. DMB 0851-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
to a collection of information unless it displays a valid OMB control number. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a c Application Number 10/709,935 Filing Date TRANSMITTAL 06/07/2004 First Named Inventor **FORM** Chen-Chih Huang Art Unit Examiner Name NGUYEN, CHAU T (to be used for all correspondence after initial filling) Attorney Docket Number REAP0023USA Total Number of Pages in This Submission **ENCLOSURES** (Check all that apply) After Allowance Communication to TC ~ Fee Transmittal Form Drawing(s) Appeal Communication to Board Licensing-related Papers Fee Attached of Appeals and Interferences Appeal Communication to TC Petition Amendment/Reply (Appeal Notice, Brief, Reply Brief) Petition to Convert to a Provisional Application Proprietary Information After Final Power of Attorney, Revocation Affidavits/declaration(s) Change of Correspondence Address Other Enclosure(s) (please Identify Terminal Disclaimer Extension of Time Request below): Request for Refund **Express Abandonment Request** CD, Number of CD(s) Information Disclosure Statement Landscepe Table on CD Certifled Copy of Priority Remarks Document(s) Reply to Missing Parts/ Incomplete Application
Reply to Missing Perts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm Name North America Intellectual Property Corporation Signature Wenton bar Printed name Winston Hsu Date Reg. No. 12/08/2005 41,526 CERTIFICATE OF TRANSMISSION/MAILING I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below: Signature Date 12/08/2005 Cindy Lin Typed or printed name

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA '22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

To: USPTO

Under the Panerwork Reduction Act of 1995, no persons are required to rescond

Page: 3/35

Date: 2005/12/8 下午 06:57:55

RECEIVED CENTRAL FAX CENTER

DEC 0 8 2005

PTO/SB/17 (12-04)
Approved for use through 07/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
to a collection of information unless it displays a valid OMB control number.

Effective on 12	Complete if Known					
Fees pursuant to the Consolidated Appl	Application Number	10/709,935				
FEE TRAN	Filing Date	06/07/2004				
For FY	First Named Inventor	Chen-Chih Huang				
A - Francis de la completa del completa de la completa de la completa del completa de la completa del la completa de la completa della completa de la completa de la completa de la completa de la completa della completa de la completa de la completa della comple	0 27 CED 4 27	Examiner Name	NGUYEN, CHAU	T		
Applicant dalms small entity st	I	Art Unit	2663			
TOTAL AMOUNT OF PAYMENT	(\$) 0.00	Attorney Docket No.	REAP0023USA			
METHOD OF PAYMENT (chec	k all that apply)					
Check Credit Card	Money Order Nor	ne Other (please id	entify);			
Deposit Account Deposit Ac		Deposit Account N	ame: North America Inte	Hectual Property Corp.		
For the above-identified depr	osit account, the Director is he					
Charge fee(s) indicate	d below	Charge fee(s)) indicated below, excep	ot for the filing fee		
Charge any additional	fee(s) or underpayments of fe			-		
warning; Information on this form me	ay become public. Credit card in	<u> </u>	, ,	de credit card		
information and authorization on PTO-2	938.					
FEE CALCULATION						
1. BASIC FILING, SEARCH, AM		RCH FEES EXAM	MINATION FEES	•]		
I	Small Entity	Small Entity	Small Entity	Ence Daid (\$)		
Application Type Fee (S Utility 300			2.5.2.1.7	Fees Paid (\$)		
1	150 500	200				
Design 200	100 100	50 130				
Plant 200	100 300	150 160	- 55			
Reissue 300	150 500	250 600				
Provisional 200 2. EXCESS CLAIM FEES	100 0	0 (0			
Fee Description				Small Entity Fee (\$) Fee (\$)		
Each claim over 20 or, for Reisst				50 25		
Each independent claim over 3 of	r, for Reissues, each indep	endent claim more than	n in the original pater			
Multiple dependent claims Total Claims Extra Cla	time Eas (\$) Eas	D-1-2 (6) Models	ole Dependent Claims	360 180		
Total Claims Extra Cla - 20 or HP =	aims Fee(\$) Fee		e (\$) Fee Paid	(2)		
HP = highest number of total claims paid			Z.154 3Ba.3.2012			
Indep, Claims Extra Cts - 3 or HP =	aims <u>Fee (\$) Fee i</u>	Paid (\$)				
HP = highest number of independent claims paid for, if greater than 3						
3. APPLICATION SIZE FEE						
If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity)						
for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). Total Sheets Extra Sheets Number of each additional 50 or fraction thereof Fee (\$) Fee Paid (\$)						
- 100 = /50 = (round up to a whole number) x						
4. OTHER FEE(S)						
Non-English Specification, \$130 fee (no small entity discount)						
Other: submission of Information	in Disclosure Statement	· · · · · · · · · · · · · · · · · · ·	-	0.00		
SUBMITTED BY						
	ton their	Registration No. 41,52	6 Telephone	302-729-1562		
Name (Print/Type) Winston Hs	*** **********************************	(Aftorney/Agent) 41,32	Date 12/0			

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) en application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

To: USPTO

Page: 4/35

Date: 2005/12/8 下午 06:57:55

PTQ/S8/08A (08-03) Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Peperworl	Reduction Act of 1995, no persons are required	to respond to a collection of informa	ition unless it contains a valid OMB con	trot number		
Substitute for form 1449/PTO		Complete if Known				
002012010 (01 10111)		Application Number	10/709,935			
MEODM	ATION DISCLOSURE	Filing Date	06/07/2004			
INFORMATION DISCLOSURE		First Named Inventor	Chen-Chih Huang			
STATEM	ENT BY APPLICANT	Art Unit	2663			
(Use as many sheets as necessary)		Examiner Name	NGUYEN, CHAU T			
Chart 11	of !2	Attorney Docket Number	REAP0023USA			

			U. S. PATEN	L DOCUM			
Examiner Initials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Ap	Name of Patentee or oplicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
	ļ	Number-Kind Code ^{2 (7 trooms)}				1 iguies repeal	
	1	^{US-} 5,812,537	09-22-1998	Betts,	et al.		
		US-					
		US-		1			
		US-		1			
		US-		1			
		US-					
		US-					
		US-		1	· · · · · · · · · · · · · · · · · · ·		
		US-		1			
		US-		 			
		US-					
		US-		 	**************************************		
		US-		†			
		US-					
		US-					
		US-		1			
		US-					
		US-		 			
		US-		 			

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages		
		Country Code ³ 'Number ⁴ 'Yand Code ⁵ (V knpwn)	MM-DD-YYYY	,	Or Relevant Figures Appear	To	
	2	TW 318989	11-01-1997			+	
						L	
	<u> </u>					<u> </u>	
	ļ				<u> </u>	<u> </u>	
	<u> </u>					 	
	l		i l			1	

Examiner	Date	
Signature	Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered, include copy of this form with next communication to applicant. 'Applicant's unique citation designation number (optional). *See Kinds Codes of USPTO Patent Documents at www.uspto.gog/ or MPEP 901.04. *Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). *For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. *Virtid of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. *Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the emount of time you require to complete this form analyor suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Sheet 2

To: USPTO

of 2

Page: 5/35

Date: 2005/12/8 下午 06:57:56

Approved for use through 07/31/2008. OMB 0651-0031
U.S. Petent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Perperwork Reduction Act of 1996, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Complete if Known

Application Number 10/709,935

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
First Named Inventor Chen-Chih Huang
Art Unit 2663

Examiner Name NGUYEN, CHAU T

Attorney Docket Number

REAP0023USA

Examiner	Cite	NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of	1
Initials*	No.	the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
	3	"15MHz, BIMOS Operational Amplifier with MOSFET Input/CMOS Output.", HARRIS Semiconductor, September 1998, pp. 1, 4, CA3130, CA3130A, No. 817.4., Harris Corporation 1998.	
			

Examiner	Date	l l
Signature	Considered	
THE MINES IN THE PROPERTY OF T	O Drow line through o	itation If not in conformance and not

^{*}EXAMINER: Initial if reference considered, whether or not obtation is in conformance with MPEP 609. Draw line through citetion if not in conformance and not considered. Include copy of this form with next communication to applicant.

If you need essistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

considered. Include copy of this form with next contribution to applicant is to place a check mark here if English language Translation is attached. Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including systhering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the Individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

From: 8064986673 To: USPTO Page: 6/35 Date: 2005/12/8 下午 06:57:56

RECEIVED CENTRAL FAX CENTER

DEC 0 8 2005

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Chen-Chih Huang, Chin-Wen Huang.

Appl. No.: 10/709,935 Filing Date: 06/07/2004

Examiner: NGUYEN, CHAU T Art Unit: 2663

Docket No.: REAPO023USA Confirmation No.: 3934

Title: ECHO CANCELLATION DEVICE FOR FULL DUPLEX

COMMUNICATION SYSTEMS

To: Commissioner for Patents

P.O. BOX 1450

Alexandria, VA 22313-1450

Subject: Information disclosure statement under 37 CFR \$1.56

Dear Sir,

This is an Information Disclosure Statement in accordance with the duty to disclose information material to patentability under 37 CFR \$1.56. The applicant wishes to make of record the document(s) listed on the accompanying form PTO/SB/08.

Since this IDS is filed before the mailing date of the first Office action, consideration of the information disclosure statement is hereby requested according to $37 \ \text{CFR} \ \$1.97 \ \text{(b)}$.

That each item of information contained in the information disclosure statement was first cited in an Office

From: 8064986673 To: USPTO Page: 7/35 Date: 2005/12/8 下午 06:57:56

communication mailed on October 24, 2005 for the counterpart Taiwan patent application number 093100947, which are no more than three months prior to the filing of the information disclosure statement.

According to the requirement set forth in 37 CFR \$1.98(a)(2), the applicant is submitting a copy of the cited Taiwanese patent TW 318989 (published November 01, 1997). In accordance with MPEP 609 III A(3), an English-language equivalent application may be submitted to fulfill the requirement for a concise explanation of relevance. Accordingly, the English-language equivalent US patent 5,812,537 of the Taiwanese patent TW 318989 is hereby presented to fulfill the 37 CFR \$1.98(a)(3) requirement.

It is respectfully requested that the examiner can consider the document(s) listed on the accompanying form PTO/SB/08 and that it be made of record in the application. The applicants sincerely hope that the examiner initials the cited reference(s) on the form and that a copy of the initialed form be sent to the applicants with the next communication from the examiner.

From: 8064986673 To: USPTO Page: 8/35 Date: 2005/12/8 下午 06:57:57

Respectfully submitted,

Wentonbar

Date: December 08, 2005

Winston Hsu, Patent Agent No. 41,526

P.O. BOX 506, Merrifield, VA 22116, U.S.A.

Voice Mail: 302-729-1562 Facsimile: 806-498-6673

e-mail : winstonhsu@naipo.com

Note: Please leave a message in my voice mail if you need to talk to me. (The time in D.C. is 13 hours behind the Taiwan time, i.e. 9 AM in D.C. = 10 PM in Taiwan.)